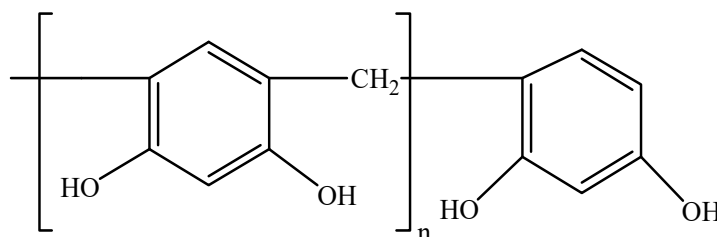


## Adhesive Resin AN2102-2 Technical Bulletin

### 1 Introduction

AN2102-2 is a resorcinol-formaldehyde resin, which is a methylene acceptor in resorcinol-formaldehyde-silica adhesion system. It is used in combination with a methylene donor to effectively bond the rubber to various framework materials. This product contains no free formaldehyde and with less than 15% free resorcinol, it will reduce fuming and weight loss during compounding compared to using resorcinol monomer.



### 2 Specification

Items	Index	Test Methods
Appearance	Dark red brown Pastilles	Q ZJHS 04155-2020 4.2
Softening Point (°C)	99~114	Q ZJHS 04155-2020 4.3
Weight Loss (105°C, 2h) , %	≤0.7	Q ZJHS 04155-2020 4.4
Free Resorcinol ( %)	12~15	Q ZJHS 04155-2020 4.5
pH Value (50% alcohol solution)	4~6	Q ZJHS 04155-2020 4.6

### 3 Application

- (1) . AN2102-2 can be used as an adhesion promoter synthetic fabric or plated wire structural components in rubber for tires, conveyer belt, drive belt, damping rubber, anti-vibration rubber and industrial component, etc.
- (2) . AN2102-2 is used as methylene acceptor in resorcinol-formaldehyde-silica adhesion system or resorcinol-formaldehyde-silica-cobalt adhesion system. It is used with a methylene donor such as hexa-methylenetetramine (HMTA) or hexamethoxymethylmelamine (HMMM).
- (3) . The recommended ratio of AN2102-2 to Methylene donor is 60:40. The typical amount of AN2102-2 and a methylene donor in the compounding system is approximately 1-3 parts of each component.

### 4 Packaging and Storage

- (1) . AN2102-2 is packed in paper lined with polyethylene plastic bag or plastic bag and has a net weight of 25 kg per bag.
- (2) . Store in a cool and dry warehouse to avoid moisture absorption and agglomeration.
- (3) . The product has a shelf life of 12 months from the date of manufacture. Our Quality department will recertify lots for six month extended shelf life.

**DISCLAIMER:**

The information contained in this document is given in good faith and based on our current knowledge. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.

Users are requested to check that they are in possession of the latest version of the present document and we are at their disposal to supply any additional information.